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PROBABILISTIC HYDROLOGIC OUTLOOK
NATIONAL WEATHER SERVICE DES MOINES IA
605 PM CST WED JAN 26 2011

... SPRING FLOOD AND WATER RESOURCES OUTLOOK...

THIS FLOOD OUTLOOK IS FOR THE NWS DES MOINES SERVICE AREA. IT COVERS THE TIME PERIOD FOR FEBRUARY THROUGH APRIL 2011. IT INCLUDES THE FOLLOWING RIVERS AND THEIR TRIBUTARIES IN NORTH CENTRAL...CENTRAL AND SOUTH CENTRAL IOWA...

IOWA...CEDAR...SKUNK...DES MOINES...RACCOON...NISHNABOTNA...
102...THOMPSON AND CHARITON RIVERS

- ...FLOOD OUTLOOK HIGHLIGHTS...
- * THE RISK OF FLOODING FROM LATE WINTER INTO SPRING IS NEAR TO ABOVE NORMAL. CURRENT INFORMATION SUGGESTS IT IS MOST ABOVE NORMAL ACROSS NORTHERN PORTIONS OF THE CEDAR...IOWA AND WINNEBAGO RIVER BASINS...AS WELL AS IN THE UPPER DES MOINES RIVER BASIN.
- * THE TIME PERIOD WHEN FLOODING IS MOST LIKELY BEGINS BY MID MARCH...AND EXTENDS INTO APRIL. STREAM LEVELS TYPICALLY BEGIN INCREASING BY MID MARCH. A SIGNIFICANT...PROLONGED WARM-UP MAY RESULT IN EARLIER RISES ON THE STREAMS.
- * BE ON THE LOOKOUT FOR ICE JAMS...ESPECIALLY IN THE LOCATIONS MOST PRONE TO THEM. THEY WILL BE MOST LIKELY BY MID MARCH. THE RISK OF ICE JAMS IS NEAR NORMAL. A QUICK WARM-UP MAY RESULT IN EARLIER ICE JAMS.
- * ABNORMAL TEMPERATURE AND PRECIPITATION BETWEEN NOW AND THE SPRING THAW MAY SIGNIFICANTLY AFFECT THE RISK OF FLOODING. THIS OUTLOOK ASSUMES NEAR NORMAL TEMPERATURES AND PRECIPITATION THROUGH THE SPRING THAW. ABOVE NORMAL PRECIPITATION WOULD TEND TO INCREASE THE RISK OF FLOODING...WHEREAS BELOW NORMAL PRECIPITATION WOULD TEND TO DECREASE IT.
- * THE RISK OF FLOODING AND FLASH FLOODING WILL BE HIGHER THAN NORMAL AFTER THE SNOW MELTS...AND WILL REMAIN HIGHER THAN NORMAL AT LEAST INTO LATE SPRING. HEAVY RAINFALL MAY RESULT IN ADDITIONAL OR PROLONGED FLOODING.
- * WE WILL ISSUE OUR NEXT...UPDATED OUTLOOK ON THURSDAY...FEBRUARY 17

2011. YOU MAY ALSO REFER TO OUR WEB SITE FOR MORE INFORMATION AT... ${\tt HTTP://WWW.WEATHER.GOV/DESMOINES}$.

TABLE 1 BELOW LISTS THE PROBABILITIES OF REACHING FLOOD STAGE /MINOR FLOODING/...AS WELL AS MODERATE AND MAJOR FLOOD LEVELS FOR EACH FORECAST POINT.

... TABLE 1... PROBABILITIES FOR MINOR... MODERATE AND MAJOR FLOODING...

VALID FOR FEBRUARY THROUGH APRIL 2011

(2)							DEP FROM NORMAL				
/, Y	FLOOD STAGES										
	MIN		MODE:		MAJ		OF REACHING				
LOCATION	STG	PCT	STG	PCT	STG	PCT	FLOOD STAGE				
IOWA RIVER											
ROWAN	11	83%	14	9%	16.5	1%	39% GREATER				
MARSHALLTOWN	18	19%	19	11%	21	1%	11% GREATER				
CEDAR RIVER											
WAVERLY	11.5	21%	15	4%	17	1%	17% GREATER				
JANESVILLE	11	27%	13	11%	15	4%	17% GREATER				
CEDAR FALLS		83%	90		93		37% GREATER				
WATERLOO	12	63%	15	31%	19	13%	30% GREATER				
W FK CEDAR RIV											
FINCHFORD	12	39%	14	13%	16	4%	NEAR NORMAL				
WINNEBAGO RIVI MASON CITY	EK 7	77%	1 0	13%	14	1%	44% GREATER				
MASON CITY	/	116	10	13%	14	16	446 GREALER				
SHELL ROCK RIV	VER										
SHELL ROCK	12	54%	13	24%	15	6%	18% GREATER				
511242 1,0 611		0 2 0				3 0	100 011211211				
BEAVER CREEK											
NEW HARTFORD	10	21%	12	9%	14		6% GREATER				
S SKUNK RIVER	$/\!\!\!/\!\!\!\!/$										
AMES 3N	14)	15		16		N/A				
AMES HWY 30	20	21%	23	3%	24	3%	NEAR NORMAL				
COLFAX	17	88	19	3%	21		NEAR NORMAL				
OSKALOOSA 2	24.5		26	/#=	30	-()	N/A				
				1	1 /1		,				
SQUAW CREEK	0	2.0	1.0	2.0	1 -		11070 11001177				
AMES	9	3%	12	3%	15		NEAR NORMAL				
W FK DES MOINI	FC DT	77FD									
ESTHERVILLE		>98%	10	80%	14	9%	N/A				
готипкитип	/	/ 200	ΤU	000	T 4	り つ	IN/A				

EMMETSBURG HUMBOLDT	10	82% 88%	11 9	59% 75%	13 12	4% 11%	66% GREATER 49% GREATER
E FK DES MOINE	S RI	VER					
ALGONA	14	>98%	17	54%	22	1%	N/A
DAKOTA CITY	20	6%	22	3%	24	1%	NEAR NORMAL
			0	Δ	IVK		D1.
DES MOINES RIV	ER						
FORT DODGE 1	0.5	49%	13	11%	14	6%	30% GREATER
STRATFORD	14	888	18	42%	22	9%	41% GREATER
DSM-2ND AVE	23	1%	25	1%	27	1%	NEAR NORMAL
DSM-SE 6TH	24	42%	26	9%	30	3%	20% GREATER
EDDYVILLE	61	67%	66		69		29% GREATER
OTTUMWA	11	67%	12	42%	15	3%	26% GREATER
$\langle \langle \rangle \rangle / \langle \rangle$							
BOONE RIVER							
WEBSTER CITY	12	3%	15		17		NEAR NORMAL
BEAVER CREEK							
GRIMES	12	11%	14	1%	16		NEAR NORMAL
CIVITIED	12	T T 0		_ 0	10		IVENII IVOICIIILE
N RACCOON RIVE	D						
JEFFERSON	19	3%	20	1%	21	1%	NEAR NORMAL
PERRY	15	52%	17	29%	20	6%	18% GREATER
LEKKI	13	J 2 6	Τ /	230	20	0.5	10% GREATER
S RACCOON RIVE	D						
REDFIELD	20		24		27		N/A
KEDLIETD	20		24		۷ /		N/A
DAGGOON DITTED							
RACCOON RIVER	1 (0.0	1.0	20	0.1		
VAN METER	16	9%	19	3%	21		NEAR NORMAL
DSM-HWY 28	32	59%	36	88			25% GREATER
DSM-FLEUR DR	12	54%	14	19%	20	3%	23% GREATER
NORTH RIVER							
NORWALK	18	68%	23	1%	25		28% GREATER
. 0							
MIDDLE RIVER							
INDIANOLA	19	31%	24	1%	25	1%	19% GREATER
SOUTH RIVER	Λ,						
ACKWORTH	26)	29		31		N/A
CEDAR CREEK		. 1/	TTA				- CU.
BUSSEY	18	9%	26	Æ	28	4	NEAR NORMAL
			- 1		$I \setminus I$		1
E NISHNABOTNA	RIVE	R					
ATLANTIC	17	9%	21.0		22.0		NEAR NORMAL
E FK 102 RIVER							
BEDFORD	21	5%	22.0	4%	23.0		NEAR NORMAL
				-			

OMINISTRATION YO

THOMPSON RIVER

DAVIS CITY 9 45% 12.0 14% 19.0 --- 10% GREATER

CHARITON RIVER

CHARITON 18 17% 21.0 --- 23.0 --- NEAR NORMAL MOULTON 35 8% 36.0 4% 37.0 --- NEAR NORMAL

S FK CHARITON RIVER

PROMISE CITY 18 52% 24.0 --- 27.0 --- 7% GREATER

KEY FOR THE ABOVE TABLE...

STG = STAGE (FEET)

PCT = PERCENT

DEP = DEPARTURE FROM NORMAL

THE BELOW TABLES SHOW THE PERCENTAGE CHANCES OF AREA RIVERS RISING ABOVE AND FALLING BELOW VARIOUS STAGES OVER THE NEXT 90 DAYS. THESE PROBABILITIES ARE CALLED EXCEEDANCE AND NON EXCEEDANCE PROBABILITIES RESPECTIVELY.

IN TABLE 1 BELOW...THE 90 THROUGH 10 PERCENT COLUMNS INDICATE EXCEEDANCE PROBABILITIES /THE CHANCES OF THE RIVER RISING ABOVE THE LISTED STAGE LEVELS/.

IN TABLE 2 BELOW...THE 90 THROUGH 10 PERCENT COLUMNS INDICATE NON EXCEEDANCE PROBABILITIES /THE CHANCES OF THE RIVER FALLING BELOW THE LISTED STAGE LEVELS/.

HERE ARE SOME EXAMPLES USING THE TABLES BELOW...

THE DES MOINES RIVER AT FORT DODGE HAS A FLOOD STAGE OF 10 FEET. IN THE NEXT 90 DAYS THERE IS A 10 PERCENT CHANCE OF THE STAGE REACHING 13.2 FEET.

ALSO... THE CEDAR RIVER AT CEDAR FALLS HAS A FLOOD STAGE OF 88 FEET. IN THE NEXT 90 DAYS THERE IS A 10 PERCENT CHANCE OF THE STAGE FALLING TO 77.0 FEET.

... TABLE 2... EXCEEDANCE PROBABILITIES...

VALID FOR FEBRUARY THROUGH APRIL 2011

LOCATION FS(FT) 90% 80% 70% 60% 50% 40% 30% 20% 10%

IOWA RIVER

11 10.5 ROWAN 11.0 11.4 11.9 12.0 12.4 12.7 13.2 14.0 MARSHALLTOWN 18 14.5 15.1 16.1 16.3 16.7 17.0 17.3 18.1 19.2

CEDAR RIVER												
	1.5	7.7	8.4	8.7	8.9	9.4	9.9	10.8	11.8	12.9		
JANESVILLE	11	6.7	7.7	8.2	8.5	9.1	10.0	10.9	12.5	14.0		
CEDAR FALLS	88	87.2	88.2	88.9	89.4	89.8	90.4	91.3	92.7	94.2		
WATERLOO	12	9.8	10.6	11.7	12.4	13.0	14.1	15.5	16.7	19.2		
				$\Delta \perp$	\/ (-	12(37					
W FK CEDAR RIV	ER						141					
FINCHFORD	12	10.1	10.6	11.0	11.2	11.5	12.0	12.5	13.0	14.4		
	0							17/	_			
WINNEBAGO RIVE	R							'//	\cap			
MASON CITY	7	6.7	6.9	7.3	7.7	8.1	8.5	8.6	9.2	11.1		
SHELL ROCK RIVER												
SHELL ROCK	12	11.0	11.4	11.6	11.8	12.3	12.6	12.9	13.2	14.5		
BEAVER CREEK												
NEW HARTFORD	10	6.2	6.5	7.1	7.7	8.2	8.6	9.5	10.2	12.3		
S SKUNK RIVER												
AMES 3N	14	6.2	6.5	6.8	7.2	7.6	7.9	8.3	9.1	10.0		
AMES HWY 30	20	14.8	15.6	16.3	17.0	17.8	18.2	19.2	20.2	21.4		
COLFAX	17	10.6	11.6	12.3	13.1	13.9	14.3	15.3	16.0	16.8		
OSKALOOSA 2	4.5	13.4	14.0	15.2	15.9	17.2	18.1	18.7	19.8	21.8		
SQUAW CREEK												
AMES	9	3.3	3.6	3.9	4.4	4.8	5.1	5.6	6.5	7.3		
-												
W FK DES MOINE	S RI	VER										
ESTHERVILLE	7	9.8	10.0	10.8	11.3	11.6	12.1	12.5	13.0	14.1		
EMMETSBURG	10	8.8	10.2	10.8	11.0	11.3	11.6	11.7	12.1	12.7		
HUMBOLDT	8	8.0	8.8	9.3	9.7	9.9	10.2	10.5	11.2	12.6		
E FK DES MOINE										,		
ALGONA	14	15.5	15.8	16.3	16.8	17.1	17.5	17.9	18.4	19.2		
DAKOTA CITY	20	14.2	14.8	15.2	15.8	16.3	16.8	17.3	17.8	19.0		
(7)												
DES MOINES RIV												
FORT DODGE 1					9.8	10.5	11.0	11.3	12.2	13.2		
	14	13.8		16.0	16.8	17.5	18.3	19.6		22.4		
		18.4		19.1	19.5	19.6	19.9	19.9		21.4		
DSM-SE 6TH		19.3		22.1	23.3	23.7	24.2	24.4		26.4		
EDDYVILLE	61	59.4		60.9	61.1	61.4			61.9			
OTTUMWA	11	9.4	10.7	11.0	11.4	11.6	12.1	12.3	12.5	13.4		
				11-	A I							
BOONE RIVER			. -			<u> </u>	. =		<u> </u>	4.0 -		
WEBSTER CITY	12	6.1	6.6	7.4	7.9	8.2	8.5	9.1	9.6	10.5		
BEAVER CREEK	1.0	F ^		0 -	2 2	2 -	100	100	11 -	10 4		
GRIMES	12	5.8	7.5	8.5	9.3	9.7	10.3	10.9	11.7	12.4		

N RACCOON RIVE JEFFERSON PERRY	19	9.5 11.8									
S RACCOON RIVE	20	5.1	5.7	6.6	7.6	8.4	8.9	9.3	9.9	11.8	
RACCOON RIVER VAN METER DSM-HWY 28 DSM-FLEUR DR	16 32 12			11.2 31.0 10.5	32.0		13.5 33.3 13.0	33.5	-		
NORTH RIVER NORWALK	18	13.6	16.4	18.1	19.8	21.1	21.4	21.8	22.0	22.1	
MIDDLE RIVER INDIANOLA	19	12.2	14.6	15.7	16.0	16.8	18.5	19.1	20.1	23.3	
SOUTH RIVER ACKWORTH	26	10.7	11.6	12.1	12.6	13.0	13.5	13.9	14.6	16.7	
CEDAR CREEK BUSSEY	18	10.3	11.1	12.3	13.2	14.2	15.2	15.9	16.8	19.0	
E NISHNABOTNA : ATLANTIC			10.0	10.6	11.5	12.5	13.7	14.3	15.0	16.8	
E FK 102 RIVER BEDFORD	21	14.5	15.1	16.0	16.3	17.1	17.5	18.1	18.9	19.5	
THOMPSON RIVER DAVIS CITY		5.7	6.5	7.3	8.2	8.7	9.5	9.8	10.5	13.7	
CHARITON RIVER CHARITON MOULTON		15.2 25.1				16.7 30.1	16.9 31.6	17.3 32.7	17.8 34.1	18.4 34.7	
S FK CHARITON : PROMISE CITY			14.8	16.7	17.4	18.3	19.1	19.6	19.8	21.7	
TABLE 3NON EXCEEDANCE PROBABILITIES VALID FOR FEBRUARY THROUGH APRIL 2011											

LOCATION FS(FT) 90% 80% 70% 60% 50% 40% 30% 20% 10%

IOWA RIVER

ROWAN MARSHALLTOWN	11 18	3.9 9.8	3.9 9.8	3.9 9.8	3.9 9.8	3.9 9.7	3.9 9.7	3.8 9.7		3.7 9.6		
CEDAR RIVER WAVERLY 1 JANESVILLE CEDAR FALLS WATERLOO	1.5 11 88 12	3.9 1.3 77.2 6.1	3.9 1.3 77.2 6.1	3.9 1.3 77.1 6.1	3.9 1.3 77.1 6.0	3.9 1.3 77.1 6.0	1.3 77.1	3.8 1.3 77.1 6.0	1.2 77.0	3.8 1.2 77.0 6.0		
W FK CEDAR RIV FINCHFORD	ER 12	5.8	5.8	5.8	5.8	5.8	5.8	5.7	5.7	5.7		
WINNEBAGO RIVER												
MASON CITY	7	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.2	3.2		
SHELL ROCK RIV	ER											
SHELL ROCK	12	7.8	7.8	7.8	7.8	7.7	7.7	7.7	7.7	7.7		
BEAVER CREEK												
NEW HARTFORD	10	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6	2.6		
S SKUNK RIVER	1 1	2 2	2 2	2 0	2 0	2 0	2 0	2 0	2 0	2 2		
AMES 3N	14	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2 9.5		
AMES HWY 30	20 17	9.6 6.8	9.6	9.6 6.8	9.6 6.8	9.6 6.8	9.6 6.8	9.6 6.8	9.6 6.7	9.5 6.7		
COLFAX OSKALOOSA	20	8.0	8.0	8.0	8.0	8.0	7.9	7.9	7.8	7.8		
OSNALOOSA	20	0.0	0.0	0.0	0.0	0.0	1.9	1.9	7.0	7.0		
SQUAW CREEK												
AMES	9	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5		
7111110		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
W FK DES MOINE	S RI	VER										
ESTHERVILLE	7	2.9	2.9	2.9	2.9	2.9	2.8	2.8	2.8	2.7		
EMMETSBURG	10	1.8	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.5		
HUMBOLDT	8	3.3	3.2	3.2	3.2	3.2	3.2	3.1	3.1	3.0		
										4,		
E FK DES MOINE												
ALGONA	14	7.1	7.1		7.1	7.1	7.1	7.0	7.0	7.0		
DAKOTA CITY	20	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.0		
DES MOINES RIV	F.B											
	0.5	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6		
STRATFORD	14	5.2		5.2	5.2	5.1	5.1	5.1	5.0	5.0		
DSM-2ND AVE	23	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.2		
DSM-SE 6TH	24	10.2	10.2		10.2	10.2	10.2	10.2	10.1	10.1		
EDDYVILLE	61	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5		
OTTUMWA	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
BOONE RIVER												
WEBSTER CITY	12	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1		

BEAVER CREEK GRIMES	12	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.3	3.2
N RACCOON RIVE JEFFERSON PERRY	19 15	5.0 4.1	5.0 4.1	5.0 4.1	5.0 4.1	4.9 4.1	4.9 4.1		4.9 4.0	4.9
S RACCOON RIVE REDFIELD	20	3.3	3.3	3.3	3.3	3.3	3.2	3.2	3.2	3.2
RACCOON RIVER VAN METER DSM-HWY 28 DSM-FLEUR DR	16 32 12	2.8 22.8 0.2	2.8 22.8 0.2	22.8	2.8 22.8 0.2	2.8 22.7 0.2		2.8 22.7 0.2	2.7 22.7 0.2	2.7 22.7 0.1
NORTH RIVER NORWALK	18	5.9	5.9	5.9	5.9	5.8	5.8	5.8	5.8	5.7
MIDDLE RIVER INDIANOLA	19	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
SOUTH RIVER ACKWORTH	26	6.6	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.5
CEDAR CREEK BUSSEY	18	5.2	5.2	5.2	5.1	5.1	5.1	5.1	5.1	5.1

THESE NUMBERS ARE CALCULATED USING MULTIPLE SPRING SEASON SCENARIOS FROM 30 OR MORE YEARS OF CLIMATOLOGICAL DATA. THESE NUMBERS ALSO TAKE INTO ACCOUNT CURRENT CONDITIONS OF THE RIVER...SNOW COVER AND SOIL MOISTURE...AS WELL AS 30 TO 90 DAY OUTLOOKS OF TEMPERATURE AND PRECIPITATION. BY PROVIDING THE COMPLETE RANGE OF PROBABILISTIC NUMBERS...THE LEVEL OF RISK ASSOCIATED WITH LONG-RANGE PLANNING DECISIONS CAN BE DETERMINED.

... CURRENT CONDITIONS AS OF JANUARY 26 2011...

.SNOW PACK...THE SNOW PACK IS NEAR TO ABOVE NORMAL FOR THIS TIME OF YEAR. IT IS MOST ABOVE NORMAL IN THE NORTHEAST AND SOUTHWEST PORTIONS OF THE DES MOINES SERVICE AREA...AS WELL AS IN THE UPPER MOST DES MOINES RIVER BASIN IN SOUTHWEST MINNESOTA. SNOW WATER EQUIVALENTS RANGE FROM AROUND 1 INCH IN THE SOUTH...TO AROUND 4 INCHES IN THE FAR NORTHEAST AS WELL AS IN THE UPPER MOST DES MOINES RIVER BASIN IN SOUTHWEST MINNESOTA.

.STREAM LEVELS...VALUES ARE ABOVE TO MUCH ABOVE NORMAL AT MOST LOCATIONS. THE ONLY EXCEPTIONS ARE THE FAR SOUTH WHERE THEY ARE NEAR NORMAL. THE ABOVE NORMAL STREAM FLOWS HAVE PERSISTED SINCE THE SEASONALLY HEAVY RAINFALL LAST FALL.

- .SOIL MOISTURE...FOR THE ENTIRE VERTICAL SOIL COLUMN...VALUES ARE ABOVE TO MUCH ABOVE NORMAL AT MOST LOCATIONS. IT IS MOST ABOVE NORMAL IN THE DES MOINES RIVER BASIN. SOIL MOISTURE HAS REMAINED ABOVE NORMAL SINCE LAST SUMMER. THE SEASONALLY HEAVY RAINFALL LAST FALL HELPED MAINTAIN RELATIVELY HIGH KEEP SOIL MOISTURE LEVELS.
- .DROUGHT CONDITIONS...ALTHOUGH DROUGHT CONDITIONS WERE NOT INDICATED ACROSS THE DES MOINES SERVICE AREA...ABNORMALLY DRY CONDITIONS WERE NOTED JUST SOUTH AND SOUTHWEST OF IOWA...IN NEBRASKA...KANSAS AND MISSOURI. MODERATE DROUGHT CONDITIONS EXISTED IN EASTERN KANSAS. THESE DRY CONDITIONS HAVE CREPT NORTHEASTWARD OVER THE FALL AND WINTER.
- .FROST DEPTH...FROST DEPTHS RANGED FROM AROUND 6 INCHES IN THE SOUTH...TO OVER 10 INCHES IN THE NORTH. FROST DEPTHS ARE CONSIDERABLY GREATER THAN THOSE OF ONE YEAR AGO.
- .PRECIPITATION...OVER THE PAST 3 MONTHS...VALUES HAVE BEEN ABOVE NORMAL ACROSS THE NORTHERN ONE-THIRD BUT NEAR TO BELOW NORMAL ELSEWHERE. IN CONTRAST...OVER THE PAST 6 MONTHS...VALUES HAVE BEEN NEAR TO ABOVE NORMAL AT MOST LOCATIONS.
- .TEMPERATURES...OVER THE PAST MONTH...VALUES HAVE BEEN BELOW TO MUCH BELOW NORMAL.
- ...ONE MONTH CLIMATE OUTLOOK /FOR FEBRUARY/...
- .TEMPERATURES...BELOW NORMAL ACROSS THE NORTHEAST TWO-THIRDS OF THE DES MOINES SERVICE AREA...AND EQUAL CHANCES FOR ABOVE...BELOW...AND NEAR NORMAL ELSEWHERE.
- .PRECIPITATION...EQUAL CHANCES FOR PRECIPITATION ACROSS THE ENTIRE DES MOINES SERVICE AREA.
- NOTE...EQUAL CHANCES MEANS THAT THERE ARE NO STRONG INDICATORS OF ABOVE...BELOW OR NEAR NORMAL CONDITIONS.
- ... THREE MONTH CLIMATE OUTLOOK /FOR FEBRUARY THROUGH APRIL/..
- .TEMPERATURES...BELOW NORMAL ACROSS THE NORTHERN HALF OF THE DES MOINES SERVICE AREA...AND EQUAL CHANCES FOR ABOVE...BELOW AND NEAR NORMAL ELSEWHERE.
- .PRECIPITATION...BELOW NORMAL ACROSS THE WESTERN ONE-THIRD OF THE DES MOINES SERVICE AREA...AND EQUAL CHANCES FOR ABOVE...BELOW AND NEAR NORMAL ELSEWHERE.

